

In the Abstract

Please substitute the following amended Abstract for the Abstract as currently pending
(deleted matter is shown by strikethrough and added matter is shown by underlining):

The invention relates to a device for measuring an optical penetration that is triggered in a tissue (6, 14) underneath the tissue surface by means of therapeutic laser radiation which a laser-surgical device [(5)] concentrates in a treatment focus [(11)] located in said tissue (16, 14). The inventive device is provided with a detection beam path comprising a lens system which couples radiation emanating from the tissue (6, 14) underneath the tissue surface into the detection beam path. A detector device (4, 3, 9; 39, 40, 41; 58, 59, 60) generating a detection signal [(5)] which indicates the spatial dimension and/or position of the optical penetration in the issue (6, 14) is arranged downstream of the detection beam path.